

Abstract.

Described is a device for the voltage supply for a heavy power consumer, in particular for an electric auxiliary compressor in a motor vehicle in which the electric auxiliary compressor 5 is supplied with voltage with the aid of two ultracaps and one high current diode. The voltage supply via the high current diode takes place starting from the battery of the vehicle electrical system, while the ultracaps provide high electric power for a short time during the starting phase of the 10 electric auxiliary compressor at a voltage which is doubled vis-à-vis the voltage of the vehicle electrical system.